2006-08 ACCESSORIES & EQUIPMENT

Cruise Control (R18A1) - Civic (All Except Hybrid)

COMPONENT LOCATION INDEX

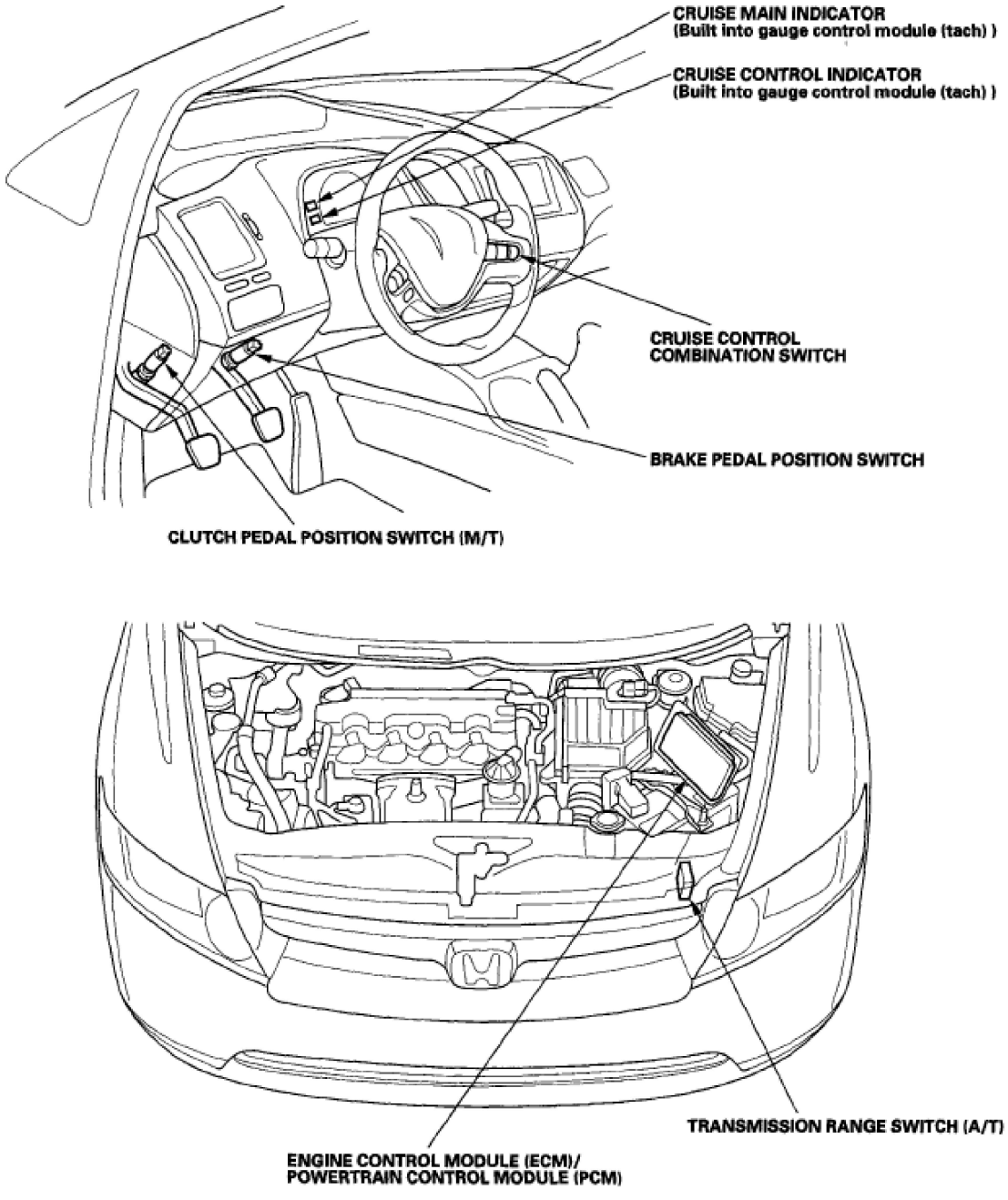
CRUISE MAIN INDICATOR
(Built into gauge control module (tach))
CRUISE CONTROL INDICATOR
(Built into gauge control module (tach))
CRUISE CONTROL
COMBINATION SWITCH
BRAKE PEDAL POSITION SWITCH
CLUTCH PEDAL POSITION SWITCH (M/T)
TRANSMISSION RANGE SWITCH (A/T)
ENGINE CONTROL MODULE (ECM)/
POWERTRAIN CONTROL MODULE (PCM)

Fig. 1: Locating Cruise Control Components
Courtesy of AMERICAN HONDA MOTOR CO., INC.

SYMPTOM TROUBLESHOOTING INDEX

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Symptom	Diagnostic procedure	Also check for
Cruise control cannot be set	1. Check for PGM-FI DTCs (see **GENERAL TROUBLESHOOTING INFORMATION**). 2. Check the No. 3(10 A) fuse in the under-dash fuse/relay box. 3. Do the cruise control input test (see **CRUISE CONTROL INPUT TEST**). 4. Do the cruise control combination switch test (see **CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT**).	
Cruise control can be set, but the cruise main indicator does not come on	Do the gauge control module self-diagnostic function procedure (see **SELF-DIAGNOSTIC FUNCTION**).	Faulty gauge control module (tach)
Cruise control can be set, but the cruise control indicator does not come on	1. Check for PGM-FI DTCs (see **GENERAL TROUBLESHOOTING INFORMATION**). 2. Do the gauge control module self-diagnostic function procedure (see **SELF-DIAGNOSTIC FUNCTION**). 3. Do the cruise control input test (see **CRUISE CONTROL INPUT TEST**). Test the cruise	Faulty gauge control module (tach)

	control indicator signal input.	
Vehicle does not decelerate or accelerate accordingly when the set/decel or resume/accel switch is pressed	1. Check for PGM-FI DTCs (see **GENERAL TROUBLESHOOTING INFORMATION**). 2. Do the cruise control input test (see **CRUISE CONTROL INPUT TEST**). Test the cruise control set/decel, resume/accel switch signal input. 3. Do the cruise control combination switch test (see **CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT**).	Open circuit, loose or disconnected terminals: YEL/RED, LT GRN or LT GRN/BLK, ORN
Set speed does not cancel when the brake pedal is pressed	1. Check for PGM-FI DTCs (see **GENERAL TROUBLESHOOTING INFORMATION**). 2. Do the cruise control input test (see **CRUISE CONTROL INPUT TEST**). Test the brake pedal position switch signal input. 3. Do the brake pedal position switch test (see **BRAKE PEDAL POSITION SWITCH TEST**).	• Short to power on the BRN wire • Faulty brake pedal position switch
Set speed does not cancel (engine rpm stays high) when the clutch pedal is	1. Check for PGM-FI DTCs (see **GENERAL TROUBLESHOOTING INFORMATION**). 2. Do the cruise control input test (see **CRUISE CONTROL INPUT TEST**). Test the clutch	• Short in the LT BLU wire • Faulty clutch pedal position

pressed (M/T)	pedal position switch signal input. 3. Do the clutch pedal position switch test (see **CLUTCH PEDAL POSITION SWITCH TEST**).	switch
Set speed does not cancel when the cruise control main switch is pressed	1. Check for PGM-FI DTCs (see **GENERAL TROUBLESHOOTING INFORMATION**). 2. Do the cruise control input test (see **CRUISE CONTROL INPUT TEST**). Test the cruise control main switch signal input. 3. Do the cruise control combination switch test (see **CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT**).	Short to power on the PNK, YEL wire
Set speed does not cancel when the cancel switch is pressed	1. Check for PGM-FI DTCs (see **GENERAL TROUBLESHOOTING INFORMATION**). 2. Do the cruise control input test (see **CRUISE CONTROL INPUT TEST**). Test the cruise control cancel switch signal input. 3. Do the cruise control combination switch test (see **CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT**).	Open circuit, loose or disconnected terminals: YEL/RED, LT GRN or LT GRN/BLK, ORN
	1. Check for PGM-FI DTCs (see **GENERAL**	

Set speed will not resume when the resume/accel switch is pressed (with the cruise control main switch turned on, and set speed temporarily canceled by pressing the brake pedal)	**TROUBLESHOOTING INFORMATION**). 2. Check the brake pedal position switch adjustment (see **BRAKE PEDAL AND BRAKE PEDAL POSITION SWITCH ADJUSTMENT**). 3. Do the cruise control input test (see **CRUISE CONTROL INPUT TEST**). Test the cruise control resume/accel switch signal input. Test the brake pedal position switch signal input. 4. Do the cruise control combination switch test (see **CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT**).	• Faulty brake pedal position switch • Open circuit, loose or disconnected terminals: LT GRN/BLK, ORN
Set speed will not resume when the resume/accel switch is pressed (with the cruise control main switch turned on, and set speed temporarily canceled by pressing the clutch pedal) (M/T)	1. Check for PGM-FI DTCs (see **GENERAL TROUBLESHOOTING INFORMATION**). 2. Check the clutch pedal position switch adjustment (see **CLUTCH PEDAL, CLUTCH PEDAL POSITION SWITCH, AND CLUTCH INTERLOCK SWITCH ADJUSTMENT**). 3. Do the cruise control input test (see **CRUISE CONTROL INPUT TEST**). Test the cruise control resume/accel switch signal input. Test the clutch pedal position switch signal input.	• Faulty clutch pedal position switch • Open circuit, loose or disconnected terminals: LT GRN/BLK, ORN

	4. Do the cruise control combination switch test (see **CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT**).	
With the ignition switch ON (II), and the lighting switch turned on, the cruise control combination switch illumination does not come on	Replace the cruise control combination switch (see **CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT**).	

CIRCUIT DIAGRAM

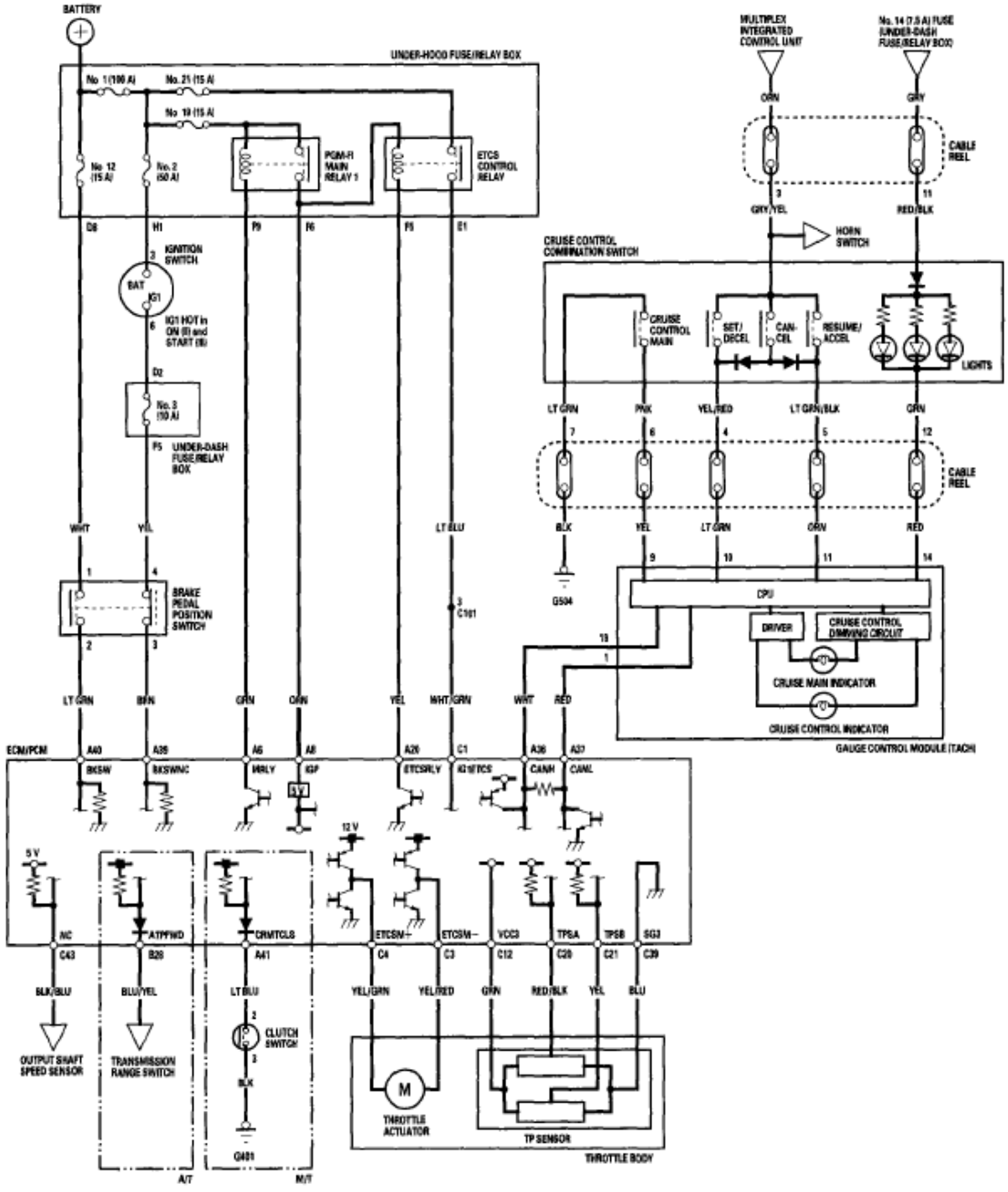

Fig. 2: Cruise Control - Circuit Diagram
Courtesy of AMERICAN HONDA MOTOR CO., INC.

CRUISE CONTROL INPUT TEST

NOTE: Always make sure you have the latest HDS software before doing the input tests.

1. Connect the Honda Diagnostic System (HDS) to the data link connector (DLC) (see step 2 in **HOW TO USE THE HDS (HONDA DIAGNOSTIC SYSTEM)**).
2. Turn the ignition switch ON (II).
3. Make sure the HDS communicates with the vehicle and the ECM/PCM. If it doesn't, troubleshoot the DLC circuit (see **DLC CIRCUIT TROUBLESHOOTING**).
4. Go to PGM-FI, and check for DTCs (see **DTC TROUBLESHOOTING**).
5. Do the following tests while monitoring parameters in the PGM-FI DATA LIST with the HDS.

NOTE: Intermittent failures are often caused by loose circuit connections. While monitoring cruise control inputs, flex their circuits, and note if any of the test results change.

Cruise Control Input Test

Signal to be tested	Test condition	Parameter: Desired result	Possible cause if result is not obtained
Brake pedal position switch signal	Brake pedal pressed, then released	CRUISE BRAKE SW should indicate OFF when the brake pedal is pressed and ON when the brake pedal is released.	• Faulty brake pedal position switch • Blown No. 3 (10 A) fuse in the under-dash fuse/relay box • Open in the wire between the engine control module (ECM/powertrain control module (PCM) and the brake pedal position switch • A wire shorted to ground between the

			ECM/PCM and the brake pedal position switch
Clutch pedal position switch signal	Clutch pedal pressed, then released	SHIFT/CLUTCH SW should indicate ON when the clutch pedal is pressed and OFF when the clutch pedal is released.	• Faulty clutch pedal position switch • Open in the wire between the ECM and the clutch pedal position switch • Short to ground in the wire between the ECM and the clutch pedal position switch • Poor ground G401
Transmission range switch signal	Shift lever in D, D3, and 2	SHIFT/CLUTCH SW should indicate ON in P, R, N, and 1 and OFF in D, D3, and 2.	• Faulty transmission range switch • Open in the wire between the PCM and the transmission range switch • Short to in the wire ground between the PCM and the transmission range switch • Poor ground G101
		CRUISE MASTER (MAIN) SW should indicate ON when	• Faulty cruise control main switch • Faulty gauge control module (tach) • Open in the wire between the gauge

Cruise control main switch signal	Cruise control main switch ON and OFF	the cruise control main switch is turned ON and OFF when the cruise control main switch is turned OFF.	control module (tach) and the cruise control main switch • Short to ground in the wire between the gauge control module (tach) and the cruise control main switch
Set switch signal	Set/decel switch pressed and released	CRUISE SET SW should indicate ON when the set/decel switch is pressed and OFF when the set/decel switch is released.	• Faulty cruise control combination switch • Faulty gauge control module (tach) • Open in the wire between the gauge control module and the cruise control combination switch • Short to ground in the wire between the gauge control module and the cruise control combination switch
Resume switch signal	Resume/accel switch pressed and released	CRUISE RESUME SW should indicate ON when the resume/accel switch is pressed and OFF when the	• Faulty cruise control combination switch • Faulty gauge control module (tach) • Open in the wire between the gauge control module (tach) and the cruise control combination

		resume/accel switch is released.	switch • Short to ground in the wire between the gauge control module (tach) and the cruise control combination switch
Cancel switch signal	Cancel switch pressed and released	CRUISE CANCEL SW should indicate ON when the cancel switch is pressed and OFF when the cancel switch is released.	• Faulty cruise control combination switch • Faulty gauge control module (tach)
Cruise control indicator signal	Start the engine, turn the cruise control main switch on, and drive the vehicle above 25 mph (40 km/h). Set and cancel the cruise control.	CRUISE INDICATOR should indicate ON when the cruise control is set and OFF when the cruise control is canceled.	• Faulty ECM/PCM • Cruise control was not set at the test by other malfunction

CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT

SRS components are located in this area. Review the SRS component locations (see **COMPONENT LOCATION INDEX**) and the precautions and procedures (see **PRECAUTIONS AND PROCEDURES**) in the SRS before doing repairs or service.

1. Remove the driver's airbag (see **DRIVER'S AIRBAG REPLACEMENT**).
2. Disconnect the connectors (A), then remove the steering wheel trim (B).

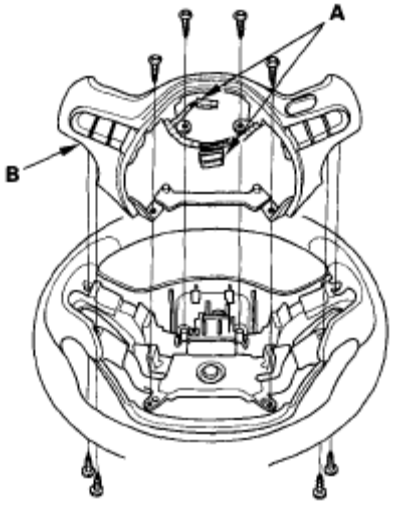

Fig. 3: Removing Steering Wheel Trim
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Remove the cruise control combination switch.

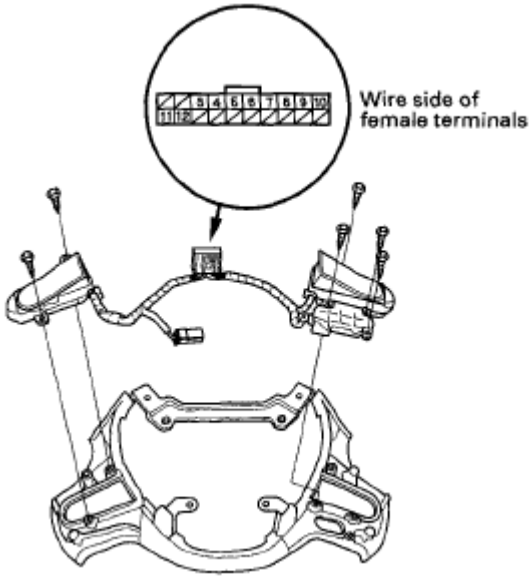

Fig. 4: Removing Cruise Control Combination Switch
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Check for continuity between the terminals in each switch position according to **Fig. 5** .
    - If there is continuity, and it matches the table, but switch failure occurred on the cruise control input test, check and repair the wire harness on the

switch circuit.

- If there is no continuity in one or more positions, replace the switch.

Position \ Terminal	6	7	3		5	4
Cruise control main switch (ON)	○	○				
Cruise control main switch (OFF)						
Set/decel (PRESSED)			○			○
Resume/accel (PRESSED)			○		○	
Cancel (PRESSED)			○			○

Fig. 5: Checking Continuity Between Cruise Control Combination Switch
Courtesy of AMERICAN HONDA MOTOR CO., INC.

CLUTCH PEDAL POSITION SWITCH TEST

1. Disconnect the 3P connector from the clutch pedal position switch.

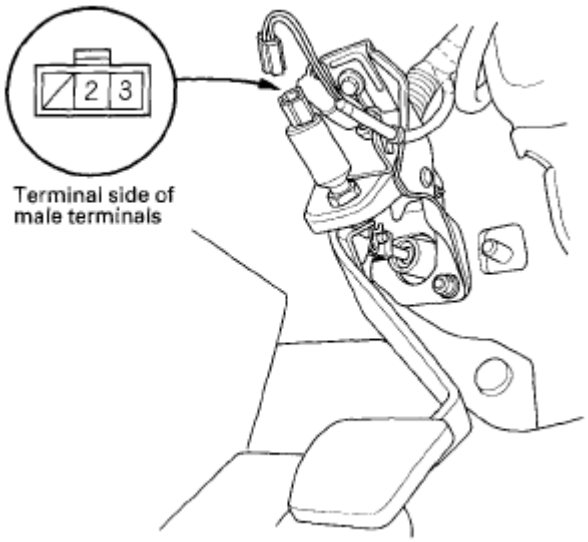

Fig. 6: Disconnecting 3P Connector From Clutch Pedal Position Switch
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Check for continuity between the terminals according to **Fig. 7** .
   - If the continuity is not as specified, replace the clutch pedal position

switch.

- If OK, install the clutch pedal position switch, and adjust the pedal height (see **CLUTCH PEDAL, CLUTCH PEDAL POSITION SWITCH, AND CLUTCH INTERLOCK SWITCH ADJUSTMENT**).

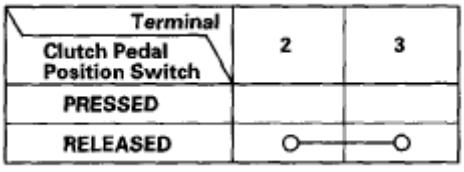

Fig. 7: Checking Continuity Between Clutch Pedal Position Switch Test
Courtesy of AMERICAN HONDA MOTOR CO., INC.